

Universal Sync/Async Fiber Optic Modem

Model
TC1700

- Data Rates up to 2.5 Mbps
- Distances Up to 30 km*
- All Popular Electrical Interfaces
- Built-In Test Signal Generator
- Local & Remote Loopback
- Interchangeable Interfaces
- Supports 5 RS-232 Control Signals
- Multimode & Single Mode (850/1300/1550nm)
- Built-In Power Redundancy
- Optical Redundancy (optional)
- Recessed Design for Easy Panel Access
- Local Dry Contact Alarm Relay
- Rack Mount/Wall Mount/Stand Alone



The TC1700 is the ultimate “configure-it-as-you-need-it” fiber optic modem. Ideal for applications requiring multiple interfaces, high data rates or full handshaking, it supports asynchronous data rates up to 256Kbps and synchronous rates up to 2.5Mbps. It supports most popular electrical interfaces including RS-232, RS-422, RS-449, RS-485 (2-wire or 4-wire), RS-530, V.35 and TTL. Electrical interfaces are modular and can be easily changed before or after installation.

Distances up to 30km* are possible depending on various factors including electrical interface, optical transmitter, number of fiber optic connectors and fiber type and quality. Power redundancy is standard when the TC1700R is used with the TCRM192 Rack Assembly and optional in standalone versions. Optical redundancy is optional.

Diagnostics are extensive and include a built-in Test Signal Generator, local loopback and LEDs for Power, Alarm, Tx, Rx and all applicable control signals. The Test Signal Generator verifies both device and fiber optic link operation.

Available for multimode (850/1300nm) or single mode (1300/1550nm), the TC1700 is compatible with all popular sizes and types of fiber optic cable. Fiber optic connectors are ST or FC. Electrical connectors are DB25 female. Power is 12VDC (standard), 24VDC, -48VDC, or 115/230VAC with an external power cube.

The TC1700 is available in three versions: PC Card for installation in a 19” rack assembly (TCRM192), wall mount, or standalone “pizza” box. Standalone or rack mount versions can be mixed or matched on either end. An extreme temperature version (-20° to 70°C), Model TC1700T, is also available.

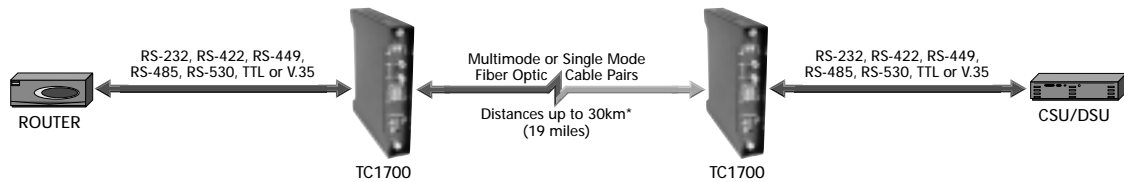
**Contact factory for higher requirements (Laser version)*



Applications

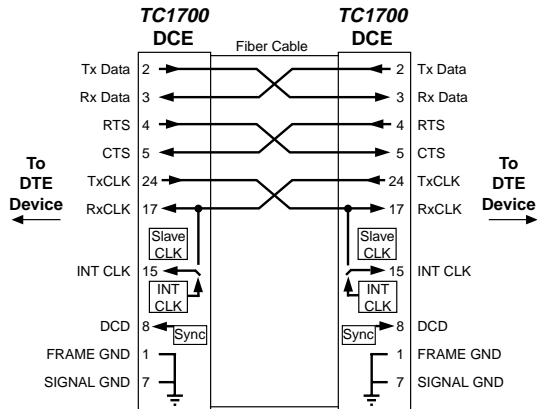
Because of its versatility, features and multiple interfaces, the TC1700 is often used to link a wide variety of synchronous or asynchronous devices to a central CPU in a campus or inter-building fiber optic network.

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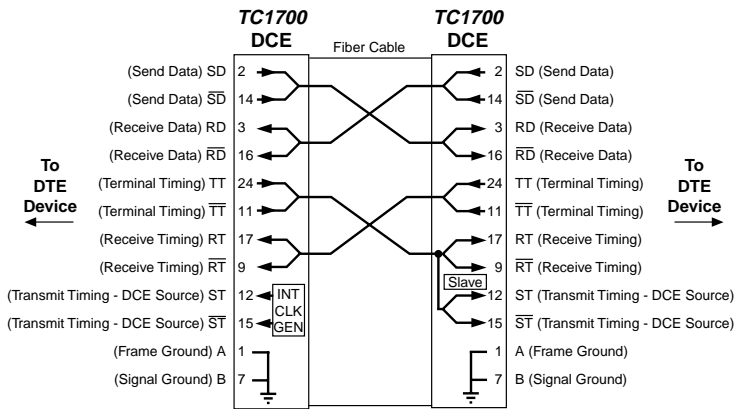


Typical application using Model TC1700 in a local loop

RS-232 Virtual Connection
(connect two Sync/Async DTE devices)



RS-530/V.35 Virtual Connection
(connect two DTE devices with Slave Clk)



Data Rates

- RS-232 (Async with RTS, CTS, DCD)up to 128 Kbps
- RS-232 (Sync)up to 128 Kbps
- RS-530 (Async)up to 256 Kbps
- RS-422/449/485/530, V.35, TTL (Sync)up to 2.5 Mbps

Optical

- TransmitterLED/ELED/LASER*
- ReceiverPIN Diode

Wavelength

-850/1300nm MM
-1300/1550nm SM

Fiber Optic Connectors.....ST or FC

- Loss Budget* - 850/1300/1550nm
- Multimode @ 62.5/125µm15dB
- Single Mode @ 9/125µm15dB

Electrical

- ConnectorDB25 Female
- Interfaces ...RS-232, TTL, RS-422, RS-449, RS-485 (2 or 4 wire), RS-530, or V.35

System

- Bit Error Rate1 in 10⁹ or better

*Contact factory for higher requirements (LASER)

Diagnostic Functions

-Local & Remote Loopback,
-Signal Generator, Disable Alarm

Visual Indicators

- System StatusPWR A, PWR B,
-Vcc, ALM, ST, SLAVE
- Electrical Signal StatusRD, RT,
-CTS, SD, TT, RTS
- Optic Signal StatusTx, Rx

Alarm

- Dry ContactNormal OPEN

Power

- Standard12VDC @500mA
- Optional24VDC, -48VDC, or
-115/230VAC with power cube

Temperature

- Operating-10°C to 50°C
- Hi-Temp (optional)-20°C to 70°C
- Storage-40°C to 90°C
- Humidity95% non-condensing

Physical (Standalone Unit)

- Height(3.53 cm) 1.4"
- Width(18.14 cm) 7.1"
- Depth(16.57 cm) 6.5"
- Weight(544 gm) 1.2 lbs



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